

0590
0411

OIEPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/067,741

DATE: 04/17/2002

TIME: 11:54:33

Input Set : N:\Crf3\RULE60\10067741.raw

Output Set: N:\CRF3\04172002\J067741.raw

1 <110> APPLICANT: Dean A. Falb
 2 Katherine Galvin
 3 Michael Donovan
 4 Dennis Huszar
 5 Michael A. Gimbrone, Jr.
 6 <120> TITLE OF INVENTION: Compositions and Methods for the Treatment and
 7 Diagnosis of
 8 Cardiovascular Disease
 9 <130> FILE REFERENCE: 7853-140-999
 10 <140> CURRENT APPLICATION NUMBER: 10/067,741
 11 <141> CURRENT FILING DATE: 2002-02-08
 13 <150> PRIOR APPLICATION NUMBER: US/09/288,292
 14 <151> PRIOR FILING DATE: 1999-04-08
 16 <150> PRIOR APPLICATION NUMBER: 08/870,434
 17 <151> PRIOR FILING DATE: 1997-06-06
 18 <150> PRIOR APPLICATION NUMBER: 08/799,910
 19 <151> PRIOR FILING DATE: 1997-02-13
 20 <150> PRIOR APPLICATION NUMBER: 60/011,787
 21 <151> PRIOR FILING DATE: 1996-02-16
 22 <150> PRIOR APPLICATION NUMBER: 08/485,573
 23 <151> PRIOR FILING DATE: 1995-06-07
 24 <150> PRIOR APPLICATION NUMBER: 08/386,844
 25 <151> PRIOR FILING DATE: 1995-02-10
 26 <160> NUMBER OF SEQ ID NOS: 46
 27 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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 30 <211> LENGTH: 1953
 31 <212> TYPE: DNA
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 34 <221> NAME/KEY: CDS
 35 <222> LOCATION: (162)...(1871)
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 39 ccgccgccta ggactagggg gtgggggacg gacaagcccc g atg ccg ggg gag acg 176
 40 Met Pro Gly Glu Thr
 41 1 5
 42 gaa gag ccg aga ccc ccg gag cag cag gac cag gaa ggg gga gag gcg 224
 43 Glu Glu Pro Arg Pro Pro Glu Gln Gln Asp Gln Glu Gly Gly Glu Ala
 44 10 15 20
 45 gcc aag gcg gct ccg gag gag ccc caa caa cgg ccc cct gag gcg gtc 272
 46 Ala Lys Ala Ala Pro Glu Glu Pro Gln Gln Arg Pro Pro Glu Ala Val

ENTERED

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Output Set: N:\CRF3\04172002\J067741.raw

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| 47 | | 25 | | 30 | | 35 | | |
| 48 | gcg gcg gcg cct gca ggg acc act agc agc cgc gtg ctg agg gga ggt | | | | | | | 320 |
| 49 | Ala Ala Ala Pro Ala Gly Thr Thr Ser Ser Arg Val Leu Arg Gly Gly | | | | | | | |
| 50 | | 40 | | 45 | | 50 | | |
| 51 | cgg gac cga ggc cgg gcc gct gcg gcc gcc gcc gcc gca gct gtg tcc | | | | | | | 368 |
| 52 | Arg Asp Arg Gly Arg Ala Ala Ala Ala Ala Ala Ala Ala Val Ser | | | | | | | |
| 53 | | 55 | | 60 | | 65 | | |
| 54 | cgc cgg agg aag gcc gag tat ccc cgc cgg cgg agg agc agc ccc agc | | | | | | | 416 |
| 55 | Arg Arg Arg Lys Ala Glu Tyr Pro Arg Arg Arg Ser Ser Pro Ser | | | | | | | |
| 56 | | 70 | | 75 | | 80 | | 85 |
| 57 | gcc agg cct ccc gac gtc ccc ggg cag cag ccc cag gcc gcg aag tcc | | | | | | | 464 |
| 58 | Ala Arg Pro Pro Asp Val Pro Gly Gln Gln Pro Gln Ala Ala Lys Ser | | | | | | | |
| 59 | | 90 | | 95 | | 100 | | |
| 60 | ccg tct cca gtt cag ggc aag aag agt ccg cga ctc cta tgc ata gaa | | | | | | | 512 |
| 61 | Pro Ser Pro Val Gln Gly Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu | | | | | | | |
| 62 | | 105 | | 110 | | 115 | | |
| 63 | aaa gta aca act gat aaa gat ccc aag gaa gaa aaa gag gaa gaa gac | | | | | | | 560 |
| 64 | Lys Val Thr Thr Asp Lys Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp | | | | | | | |
| 65 | | 120 | | 125 | | 130 | | |
| 66 | gat tct gcc ctc cct cag gaa gtt tcc att gct gca tct aga cct agc | | | | | | | 608 |
| 67 | Asp Ser Ala Leu Pro Gln Glu Val Ser Ile Ala Ala Ser Arg Pro Ser | | | | | | | |
| 68 | | 135 | | 140 | | 145 | | |
| 69 | cgg ggc tgg cgt agt agt agg aca tct gtt tct cgc cat cgt gat aca | | | | | | | 656 |
| 70 | Arg Gly Trp Arg Ser Ser Arg Thr Ser Val Ser Arg His Arg Asp Thr | | | | | | | |
| 71 | | 150 | | 155 | | 160 | | 165 |
| 72 | gag aac acc cga agc tct cgg tcc aag acc ggt tca ttg cag ctc att | | | | | | | 704 |
| 73 | Glu Asn Thr Arg Ser Ser Arg Ser Lys Thr Gly Ser Leu Gln Leu Ile | | | | | | | |
| 74 | | 170 | | 175 | | 180 | | |
| 75 | tgc aag tca gaa cca aat aca gac caa ctt gat tat gat gtt gga gaa | | | | | | | 752 |
| 76 | Cys Lys Ser Glu Pro Asn Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu | | | | | | | |
| 77 | | 185 | | 190 | | 195 | | |
| 78 | gag cat cag tct cca ggt ggc att agt ggt gaa gag gaa gag gag gag | | | | | | | 800 |
| 79 | Glu His Gln Ser Pro Gly Gly Ile Ser Gly Glu Glu Glu Glu Glu Glu | | | | | | | |
| 80 | | 200 | | 205 | | 210 | | |
| 81 | gaa gaa gag atg tta atc agt gaa gag gag ata cca ttc aaa gat gat | | | | | | | 848 |
| 82 | Glu Glu Glu Met Leu Ile Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp | | | | | | | |
| 83 | | 215 | | 220 | | 225 | | |
| 84 | cca aga gat gag acc tac aaa ccc cac tta gaa agg gaa acc cca aag | | | | | | | 896 |
| 85 | Pro Arg Asp Glu Thr Tyr Lys Pro His Leu Glu Arg Glu Thr Pro Lys | | | | | | | |
| 86 | | 230 | | 235 | | 240 | | 245 |
| 87 | cca cgg aga aaa tca ggg aag gta aaa gaa gag aag gag aag aag gaa | | | | | | | 944 |
| 88 | Pro Arg Arg Lys Ser Gly Lys Val Lys Glu Glu Lys Glu Lys Lys Glu | | | | | | | |
| 89 | | 250 | | 255 | | 260 | | |
| 90 | att aaa gtg gaa gta gag gtg gag gtg aaa gaa gag gag aat gaa att | | | | | | | 992 |
| 91 | Ile Lys Val Glu Val Glu Val Glu Val Lys Glu Glu Glu Asn Glu Ile | | | | | | | |
| 92 | | 265 | | 270 | | 275 | | |
| 93 | aga gag gat gag gaa cct cca agg aag aga gga aga aga cga aaa gat | | | | | | | 1040 |
| 94 | Arg Glu Asp Glu Glu Pro Pro Arg Lys Arg Gly Arg Arg Arg Lys Asp | | | | | | | |
| 95 | | 280 | | 285 | | 290 | | |

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Input Set : N:\Crf3\RULE60\10067741.raw

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96      gac aaa agt cca cgt tta ccc aaa agg aga aaa aag cct cca atc cag      1088
97      Asp Lys Ser Pro Arg Leu Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln
98      295                      300                      305
99      tat gtc cgt tgt gag atg gaa gga tgt gga act gtc ctt gcc cat cct      1136
100     Tyr Val Arg Cys Glu Met Glu Gly Cys Gly Thr Val Leu Ala His Pro
101     310                      315                      320                      325
102     cgc tat ttg cag cac cac att aaa tac cag cat ttg ctg aag aag aaa      1184
103     Arg Tyr Leu Gln His His Ile Lys Tyr Gln His Leu Leu Lys Lys Lys
104     330                      335                      340
105     tat gta tgt ccc cat ccc tcc tgt gga cga ctc ttc agg ctt cag aag      1232
106     Tyr Val Cys Pro His Pro Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys
107     345                      350                      355
108     caa ctt ctg cga cat gcc aaa cat cat aca gat caa agg gat tat atc      1280
109     Gln Leu Leu Arg His Ala Lys His His Thr Asp Gln Arg Asp Tyr Ile
110     360                      365                      370
111     tgt gaa tat tgt gct cgg gcc ttc aag agt tcc cac aat ctg gca gtg      1328
112     Cys Glu Tyr Cys Ala Arg Ala Phe Lys Ser Ser His Asn Leu Ala Val
113     375                      380                      385
114     cac cgg atg att cac act ggc gag aag cca tta caa tgt gag atc tgt      1376
115     His Arg Met Ile His Thr Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys
116     390                      395                      400                      405
117     gga ttt act tgt cga caa aag gca tct ctt aat tgg cac atg aag aaa      1424
118     Gly Phe Thr Cys Arg Gln Lys Ala Ser Leu Asn Trp His Met Lys Lys
119     410                      415                      420
120     cat gat gca gac tcc ttc tac cag ttt tct tgc aat atc tgt ggc aaa      1472
121     His Asp Ala Asp Ser Phe Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys
122     425                      430                      435
123     aaa ttt gag aag aag gac agc gta gtg gca cac aag gca aaa agc cac      1520
124     Lys Phe Glu Lys Lys Asp Ser Val Val Ala His Lys Ala Lys Ser His
125     440                      445                      450
126     cct gag gtg ctg att gca gaa gct ctg gct gcc aat gca ggc gcc ctc      1568
127     Pro Glu Val Leu Ile Ala Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu
128     455                      460                      465
129     atc acc agc aca gat atc ttg ggc act aac cca gag tcc ctg acg cag      1616
130     Ile Thr Ser Thr Asp Ile Leu Gly Thr Asn Pro Glu Ser Leu Thr Gln
131     470                      475                      480                      485
132     cct tca gat ggt cag ggt ctt cct ctt ctt cct gag ccc ttg gga aac      1664
133     Pro Ser Asp Gly Gln Gly Leu Pro Leu Leu Pro Glu Pro Leu Gly Asn
134     490                      495                      500
135     tca acc tct gga gag tgc cta ctg tta gaa gct gaa ggg atg tca aag      1712
136     Ser Thr Ser Gly Glu Cys Leu Leu Glu Ala Glu Gly Met Ser Lys
137     505                      510                      515
138     tca tac tgc agt ggg acg gaa cgg gtg agc ctg atg gct gat ggg aag      1760
139     Ser Tyr Cys Ser Gly Thr Glu Arg Val Ser Leu Met Ala Asp Gly Lys
140     520                      525                      530
141     atc ttt gtg gga agc ggc agc agt gga ggc act gaa ggg ctg gtt atg      1808
142     Ile Phe Val Gly Ser Gly Ser Ser Gly Gly Thr Glu Gly Leu Val Met
143     535                      540                      545
144     aac tca gat ata ctc ggt gct acc aca gag gtt ctg att gaa gat tca      1856

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145      Asn Ser Asp Ile Leu Gly Ala Thr Thr Glu Val Leu Ile Glu Asp Ser
146      550                      555                      560                      565
147      gac tct gcc gga cct tagtggacag gaagacttgg ggcatgggac agctcagact      1911
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149                      570
150      ttgtattttaa aagttaaaaa ggacaaaaaa aaaaaaaaaa aa      1953
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162      gcgcatgcca cggagcgccc ctccgggccg cgcgcgtcct gcccgggccc ctgctgctgc      180
163      tgctgtcgcc tgcgcctgct gcccgaactc ggcgcccgac tcacaaagaa acatcatgtt      240
164      cgctccttag caggcaaacg acttttctcc tcgcctcctc gcccgc atg ttc agg      296
165                      Met Phe Arg
166                      1
167      acc aaa cga tct gcg ctc gtc cgg cgt ctc tgg agg agc cgt gcg ccc      344
168      Thr Lys Arg Ser Ala Leu Val Arg Arg Leu Trp Arg Ser Arg Ala Pro
169      5                      10                      15
170      ggc ggc gag gac gag gag gag ggc gca ggg gga ggt gga gga gga ggc      392
171      Gly Gly Glu Asp Glu Glu Glu Gly Ala Gly Gly Gly Gly Gly Gly
172      20                      25                      30                      35
173      gag ctg cgg gga gaa ggg gcg acg gac agc cga gcg cat ggg gcc ggt      440
174      Glu Leu Arg Gly Glu Gly Ala Thr Asp Ser Arg Ala His Gly Ala Gly
175      40                      45                      50
176      ggc ggc ggc ccg ggc agg gct gga tgc tgc ctg ggc aag gcg gtg cga      488
177      Gly Gly Gly Pro Gly Arg Ala Gly Cys Cys Leu Gly Lys Ala Val Arg
178      55                      60                      65
179      ggt gcc aaa ggt cac cac cat ccc cac ccg cca gcc gcg ggc gcc ggc      536
180      Gly Ala Lys Gly His His His Pro His Pro Pro Ala Ala Gly Ala Gly
181      70                      75                      80
182      gcg gcc ggg ggc gcc gag gcg gat ctg aag gcg ctc acg cac tcg gtg      584
183      Ala Ala Gly Gly Ala Glu Ala Asp Leu Lys Ala Leu Thr His Ser Val
184      85                      90                      95
185      ctc aag aaa ctg aag gag cgg cag ctg gag ctg ctg ctc cag gcc gtg      632
186      Leu Lys Lys Leu Lys Glu Arg Gln Leu Glu Leu Leu Leu Gln Ala Val
187      100                      105                      110                      115
188      gag tcc cgc ggc ggg acg cgc acc gcg tgc ctc ctg ctg ccc ggc cgc      680
189      Glu Ser Arg Gly Gly Thr Arg Thr Ala Cys Leu Leu Leu Pro Gly Arg
190      120                      125                      130
191      ctg gac tgc agg ctg ggc ccg ggg gcg ccc gcc ggc gcg cag cct gcg      728
192      Leu Asp Cys Arg Leu Gly Pro Gly Ala Pro Ala Gly Ala Gln Pro Ala
193      135                      140                      145
194      cag ccg ccc tcg tcc tac tcg ctc ccc ctc ctg ctg tgc aaa gtg ttc      776

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| 195 | Gln | Pro | Pro | Ser | Ser | Tyr | Ser | Leu | Pro | Leu | Leu | Leu | Cys | Lys | Val | Phe | |
| 196 | | | 150 | | | | | 155 | | | | | 160 | | | | |
| 197 | agg | tgg | ccg | gat | ctc | agg | cat | tcc | tcg | gaa | gtc | aag | agg | ctg | tgt | tgc | 824 |
| 198 | Arg | Trp | Pro | Asp | Leu | Arg | His | Ser | Ser | Glu | Val | Lys | Arg | Leu | Cys | Cys | |
| 199 | | 165 | | | | | 170 | | | | | 175 | | | | | |
| 200 | tgt | gaa | tct | tac | ggg | aag | atc | aac | ccc | gag | ctg | gtg | tgc | tgc | aac | ccc | 872 |
| 201 | Cys | Glu | Ser | Tyr | Gly | Lys | Ile | Asn | Pro | Glu | Leu | Val | Cys | Cys | Asn | Pro | |
| 202 | | 180 | | | | 185 | | | | | 190 | | | | | 195 | |
| 203 | cat | cac | ctt | agc | cga | ctc | tgc | gaa | cta | gag | tct | ccc | ccc | cct | cct | tac | 920 |
| 204 | His | His | Leu | Ser | Arg | Leu | Cys | Glu | Leu | Glu | Ser | Pro | Pro | Pro | Pro | Tyr | |
| 205 | | | | 200 | | | | | 205 | | | | | | 210 | | |
| 206 | tcc | aga | tac | ccg | atg | gat | ttt | ctc | aaa | cca | act | gca | gac | tgt | cca | gat | 968 |
| 207 | Ser | Arg | Tyr | Pro | Met | Asp | Phe | Leu | Lys | Pro | Thr | Ala | Asp | Cys | Pro | Asp | |
| 208 | | | 215 | | | | | | 220 | | | | | 225 | | | |
| 209 | gct | gtg | cct | tcc | tcc | gct | gaa | aca | ggg | gga | acg | aat | tat | ctg | gcc | cct | 1016 |
| 210 | Ala | Val | Pro | Ser | Ser | Ala | Glu | Thr | Gly | Gly | Thr | Asn | Tyr | Leu | Ala | Pro | |
| 211 | | | 230 | | | | | 235 | | | | | 240 | | | | |
| 212 | ggg | ggg | ctt | tca | gat | tcc | caa | ctt | ctt | ctg | gag | cct | ggg | gat | cgg | tca | 1064 |
| 213 | Gly | Gly | Leu | Ser | Asp | Ser | Gln | Leu | Leu | Leu | Glu | Pro | Gly | Asp | Arg | Ser | |
| 214 | | 245 | | | | | 250 | | | | | 255 | | | | | |
| 215 | cac | tgg | tgc | gtg | gtg | gca | tac | tgg | gag | gag | aag | acg | aga | gtg | ggg | agg | 1112 |
| 216 | His | Trp | Cys | Val | Val | Ala | Tyr | Trp | Glu | Glu | Lys | Thr | Arg | Val | Gly | Arg | |
| 217 | | 260 | | | | 265 | | | | | 270 | | | | | 275 | |
| 218 | ctc | tac | tgt | gtc | cag | gag | ccc | tct | ctg | gat | atc | ttc | tat | gat | cta | cct | 1160 |
| 219 | Leu | Tyr | Cys | Val | Gln | Glu | Pro | Ser | Leu | Asp | Ile | Phe | Tyr | Asp | Leu | Pro | |
| 220 | | | | 280 | | | | | 285 | | | | | 290 | | | |
| 221 | cag | ggg | aat | ggc | ttt | tgc | ctc | gga | cag | ctc | aat | tcg | gac | aac | aag | agt | 1208 |
| 222 | Gln | Gly | Asn | Gly | Phe | Cys | Leu | Gly | Gln | Leu | Asn | Ser | Asp | Asn | Lys | Ser | |
| 223 | | | 295 | | | | | 300 | | | | | 305 | | | | |
| 224 | cag | ctg | gtg | cag | aag | gtg | cgg | agc | aaa | atc | ggc | tgc | ggc | atc | cag | ctg | 1256 |
| 225 | Gln | Leu | Val | Gln | Lys | Val | Arg | Ser | Lys | Ile | Gly | Cys | Gly | Ile | Gln | Leu | |
| 226 | | | 310 | | | | | 315 | | | | | 320 | | | | |
| 227 | acg | cgg | gag | gtg | gat | ggt | gtg | tgg | gtg | tac | aac | cgc | agc | agt | tac | ccc | 1304 |
| 228 | Thr | Arg | Glu | Val | Asp | Gly | Val | Trp | Val | Tyr | Asn | Arg | Ser | Ser | Tyr | Pro | |
| 229 | | 325 | | | | 330 | | | | | | 335 | | | | | |
| 230 | atc | ttc | atc | aag | tcc | gcc | aca | ctg | gac | aac | ccg | gac | tcc | agg | acg | ctg | 1352 |
| 231 | Ile | Phe | Ile | Lys | Ser | Ala | Thr | Leu | Asp | Asn | Pro | Asp | Ser | Arg | Thr | Leu | |
| 232 | | 340 | | | | 345 | | | | | 350 | | | | | 355 | |
| 233 | ttg | gta | cac | aag | gtg | ttc | ccc | ggt | ttc | tcc | atc | aag | gct | ttc | gac | tac | 1400 |
| 234 | Leu | Val | His | Lys | Val | Phe | Pro | Gly | Phe | Ser | Ile | Lys | Ala | Phe | Asp | Tyr | |
| 235 | | | | 360 | | | | | 365 | | | | | 370 | | | |
| 236 | gag | aag | gcg | tac | agc | ctg | cag | cgg | ccc | aat | gac | cac | gag | ttt | atg | cag | 1448 |
| 237 | Glu | Lys | Ala | Tyr | Ser | Leu | Gln | Arg | Pro | Asn | Asp | His | Glu | Phe | Met | Gln | |
| 238 | | | 375 | | | | | 380 | | | | | 385 | | | | |
| 239 | cag | ccg | tgg | acg | ggc | ttt | acc | gtg | cag | atc | agc | ttt | gtg | aag | ggc | tgg | 1496 |
| 240 | Gln | Pro | Trp | Thr | Gly | Phe | Thr | Val | Gln | Ile | Ser | Phe | Val | Lys | Gly | Trp | |
| 241 | | | 390 | | | | | 395 | | | | | 400 | | | | |
| 242 | ggt | cag | tgc | tac | acc | cgc | cag | ttc | atc | agc | agc | tgc | ccg | tgc | tgg | cta | 1544 |
| 243 | Gly | Gln | Cys | Tyr | Thr | Arg | Gln | Phe | Ile | Ser | Ser | Cys | Pro | Cys | Trp | Leu | |

VERIFICATION SUMMARY

DATE: 04/17/2002

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TIME: 11:54:34

Input Set : N:\Crf3\RULE60\10067741.raw

Output Set: N:\CRF3\04172002\J067741.raw

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L:992 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1003 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
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L:1026 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1038 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42